Abraham K Badu-Tawiah

List of Publications by Year in descending order

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62 papers 2,346 citations

28 h-index 214527 47 g-index

65 all docs

65 docs citations

65 times ranked 2046 citing authors

#	Article	IF	CITATIONS
1	Reactive Thread Spray Mass Spectrometry for Localization of Câ•€ Bonds in Free Fatty Acids: Applications for Obesity Diagnosis. Analytical Chemistry, 2022, 94, 2358-2365.	3.2	10
2	Embossed Paper Platform for Whole Blood Collection, Room Temperature Storage, and Direct Analysis by Pinhole Paper Spray Mass Spectrometry. Analytical Chemistry, 2022, 94, 4417-4425.	3.2	9
3	Automated Immunoassay Performed on a 3D Microfluidic Paper-Based Device for Malaria Detection by Ambient Mass Spectrometry. Analytical Chemistry, 2022, 94, 5132-5139.	3. 2	9
4	Dehydration of gas-phase benzyl amine alcohols studied at atmospheric pressure. International Journal of Mass Spectrometry, 2022, 476, 116836.	0.7	3
5	The Effect of the Physical Morphology of Dried Biofluids on the Chemical Stability of Analytes Stored in Paper and Direct Analysis by Mass Spectrometry. Analytical Chemistry, 2022, 94, 9618-9626.	3.2	3
6	Enhanced thread spray mass spectrometry: a general method for direct pesticide analysis in various complex matrices. Analyst, The, 2021, 146, 5592-5600.	1.7	4
7	Clinical Chemistry for Developing Countries: Mass Spectrometry. Annual Review of Analytical Chemistry, 2021, 14, 437-465.	2.8	6
8	Enzyme-Catalyzed Hydrolysis of Lipids in Immiscible Microdroplets Studied by Contained-Electrospray lonization. Analytical Chemistry, 2021, 93, 13001-13007.	3.2	15
9	Microsampling with a Solid-Phase Extraction Cartridge: Storage and Online Mass Spectrometry Analysis. Analytical Chemistry, 2021, 93, 13632-13640.	3 . 2	12
10	Protective mechanism of dried blood spheroids: stabilization of labile analytes in whole blood, plasma, and serum. Analyst, The, 2021, 146, 6780-6787.	1.7	8
11	Uncatalyzed N-Alkylation of Amines in Ionic Wind from Ambient Corona Discharge. Analytical Chemistry, 2021, 93, 2440-2448.	3 . 2	8
12	Monoacylation of Symmetrical Diamines in Charge Microdroplets. Journal of the American Society for Mass Spectrometry, 2021, 32, 531-536.	1,2	14
13	In-Source Microdroplet Derivatization Using Coaxial Contained-Electrospray Mass Spectrometry for Enhanced Sensitivity in Saccharide Analysis. Analytical Chemistry, 2021, 93, 16779-16786.	3.2	15
14	Novel manufacturing method for producing apohemoglobin and its biophysical properties. Biotechnology and Bioengineering, 2020, 117, 125-145.	1.7	14
15	Applications of Mass Spectrometry for Clinical Diagnostics: The Influence of Turnaround Time. Analytical Chemistry, 2020, 92, 183-202.	3.2	46
16	Emerging trends in paper spray mass spectrometry: Microsampling, storage, direct analysis, and applications. Mass Spectrometry Reviews, 2020, 39, 336-370.	2.8	61
17	An integrated electrocatalytic nESI-MS platform for quantification of fatty acid isomers directly from untreated biofluids. Chemical Science, 2020, 11, 9891-9897.	3.7	26
18	Accelerated nucleophilic substitution reactions of dansyl chloride with aniline under ambient conditions via dual-tip reactive paper spray. Scientific Reports, 2020, 10, 21504.	1.6	11

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19	High-Throughput Mass Spectrometry Screening Platform for Discovering New Chemical Reactions under Uncatalyzed, Solvent-Free Experimental Conditions. Analytical Chemistry, 2020, 92, 15025-15033.	3.2	8
20	Direct Analysis of Doping Agents in Raw Urine Using Hydrophobic Paper Spray Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 1212-1222.	1.2	31
21	Spray Mechanism of Contained-Electrospray Ionization. Journal of the American Society for Mass Spectrometry, 2020, 31, 1499-1508.	1.2	7
22	A proof-of-concept, two-tiered approach for ricin detection using ambient mass spectrometry. RSC Advances, 2020, 10, 17045-17049.	1.7	3
23	Analysis of non-conjugated steroids in water using paper spray mass spectrometry. Scientific Reports, 2020, 10, 10698.	1.6	12
24	Direct differentiation of whole blood for forensic serology analysis by thread spray mass spectrometry. Analyst, The, 2020, 145, 5615-5623.	1.7	15
25	Front Cover Image, Volume 117, Number 1, January 2020. Biotechnology and Bioengineering, 2020, 117, i.	1.7	O
26	N-Substituted Auxiliaries for Aerobic Dehydrogenation of Tetrahydro-isoquinoline: A Theory-Guided Photo-Catalytic Design. Scientific Reports, 2019, 9, 11280.	1.6	9
27	Microsampling with cotton thread: Storage and ultra-sensitive analysis by thread spray mass Spectrometry. Analytica Chimica Acta, 2019, 1082, 98-105.	2.6	27
28	Droplet Imbibition Enables Nonequilibrium Interfacial Reactions in Charged Microdroplets. Langmuir, 2019, 35, 14451-14457.	1.6	28
29	Determining Surface Energy of Porous Substrates by Spray Ionization. Langmuir, 2019, 35, 13853-13859.	1.6	8
30	Direct Mass Spectrometry Analysis of Complex Mixtures by Nanoelectrospray with Simultaneous Atmospheric Pressure Chemical Ionization and Electrophoretic Separation Capabilities. Analytical Chemistry, 2019, 91, 11562-11568.	3.2	27
31	Rapid Scotch Whisky Analysis and Authentication using Desorption Atmospheric Pressure Chemical Ionisation Mass Spectrometry. Scientific Reports, 2019, 9, 7994.	1.6	19
32	Reactive Olfaction Ambient Mass Spectrometry. Analytical Chemistry, 2019, 91, 6790-6799.	3.2	18
33	Thread spray mass spectrometry for direct analysis of capsaicinoids in pepper products. Analytica Chimica Acta, 2018, 1023, 81-88.	2.6	49
34	An integrated mass spectrometry platform enables picomole-scale real-time electrosynthetic reaction screening and discovery. Chemical Science, 2018, 9, 5724-5729.	3.7	31
35	Dried Blood Spheroids for Dry-State Room Temperature Stabilization of Microliter Blood Samples. Analytical Chemistry, 2018, 90, 9353-9358.	3.2	32
36	Re-configurable, multi-mode contained-electrospray ionization for protein folding and unfolding on the millisecond time scale. Analyst, The, 2017, 142, 2152-2160.	1.7	19

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37	Direct and Efficient Dehydrogenation of Tetrahydroquinolines and Primary Amines Using Corona Discharge Generated on Ambient Hydrophobic Paper Substrate. Journal of the American Society for Mass Spectrometry, 2017, 28, 647-654.	1.2	11
38	Picomoleâ€Scale Realâ€Time Photoreaction Screening: Discovery of the Visibleâ€Lightâ€Promoted Dehydrogenation of Tetrahydroquinolines under Ambient Conditions. Angewandte Chemie, 2016, 128, 9491-9495.	1.6	31
39	Picomoleâ€Scale Realâ€Time Photoreaction Screening: Discovery of the Visibleâ€Lightâ€Promoted Dehydrogenation of Tetrahydroquinolines under Ambient Conditions. Angewandte Chemie - International Edition, 2016, 55, 9345-9349.	7.2	93
40	2D wax-printed paper substrates with extended solvent supply capabilities allow enhanced ion signal in paper spray ionization. Analyst, The, 2016, 141, 3866-3873.	1.7	69
41	Mass Spectrometry for Paper-Based Immunoassays: Toward On-Demand Diagnosis. Journal of the American Chemical Society, 2016, 138, 6356-6359.	6.6	109
42	Electrospray soft-landing for the construction of non-covalent molecular nanostructures using charged droplets under ambient conditions. Chemical Communications, 2016, 52, 13660-13663.	2.2	19
43	Direct Analysis and Quantification of Metaldehyde in Water using Reactive Paper Spray Mass Spectrometry. Scientific Reports, 2016, 6, 35643.	1.6	31
44	Direct Biofluid Analysis Using Hydrophobic Paper Spray Mass Spectrometry. Analytical Chemistry, 2016, 88, 1878-1884.	3.2	131
45	Screening and Quantification of Aliphatic Primary Alkyl Corrosion Inhibitor Amines in Water Samples by Paper Spray Mass Spectrometry. Analytical Chemistry, 2016, 88, 1391-1400.	3.2	45
46	Mass spectrometry imaging reveals the sub-organ distribution of carbon nanomaterials. Nature Nanotechnology, 2015, 10, 176-182.	15.6	164
47	In Situ Bioconjugation and Ambient Surface Modification Using Reactive Charged Droplets. Analytical Chemistry, 2015, 87, 3144-3148.	3.2	14
48	Analysis of Polycyclic Aromatic Hydrocarbons Using Desorption Atmospheric Pressure Chemical Ionization Coupled to a Portable Mass Spectrometer. Journal of the American Society for Mass Spectrometry, 2015, 26, 271-280.	1.2	57
49	Reactive Charged Droplets for Reduction of Matrix Effects in Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 2015, 87, 10988-10994.	3.2	32
50	Polymerization-based signal amplification for paper-based immunoassays. Lab on A Chip, 2015, 15, 655-659.	3.1	98
51	In situ analysis of corrosion inhibitors using a portable mass spectrometer with paper spray ionization. Analyst, The, 2013, 138, 3740.	1.7	40
52	Chemical Aspects of the Extractive Methods of Ambient Ionization Mass Spectrometry. Annual Review of Physical Chemistry, 2013, 64, 481-505.	4.8	107
53	Accelerated CarbonCarbon Bondâ€Forming Reactions in Preparative Electrospray. Angewandte Chemie - International Edition, 2012, 51, 11832-11835.	7.2	186
54	Innenrýcktitelbild: Accelerated CarbonCarbon Bond-Forming Reactions in Preparative Electrospray (Angew. Chem. 47/2012). Angewandte Chemie, 2012, 124, 12075-12075.	1.6	1

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55	Accelerated C–N Bond Formation in Dropcast Thin Films on Ambient Surfaces. Journal of the American Society for Mass Spectrometry, 2012, 23, 1461-1468.	1.2	96
56	Peptide Crossâ€Linking at Ambient Surfaces by Reactions of Nanosprayed Molecular Cations. Angewandte Chemie - International Edition, 2012, 51, 9417-9421.	7.2	38
57	Reactions of Microsolvated Organic Compounds at Ambient Surfaces: Droplet Velocity, Charge State, and Solvent Effects. Journal of the American Society for Mass Spectrometry, 2012, 23, 1077-1084.	1.2	72
58	Reactions of Organic Ions at Ambient Surfaces in a Solvent-Free Environment. Journal of the American Society for Mass Spectrometry, 2012, 23, 842-849.	1.2	36
59	Ambient Ion Soft Landing. Analytical Chemistry, 2011, 83, 2648-2654.	3.2	77
60	Analysis and modification of surfaces using molecular ions in the ambient environment. Current Opinion in Chemical Biology, 2011, 15, 741-747.	2.8	12
61	Non-aqueous spray solvents and solubility effects in desorption electrospray ionization. Journal of the American Society for Mass Spectrometry, 2010, 21, 572-579.	1.2	70
62	Enhanced ion signals in desorption electrospray ionization using surfactant spray solutions. Journal of the American Society for Mass Spectrometry, 2010, 21, 1423-1431.	1.2	37